Sense (310)

P

Sense (310)

Olt

antisense

(315)

320

(2nt 3' overhang)

antisense

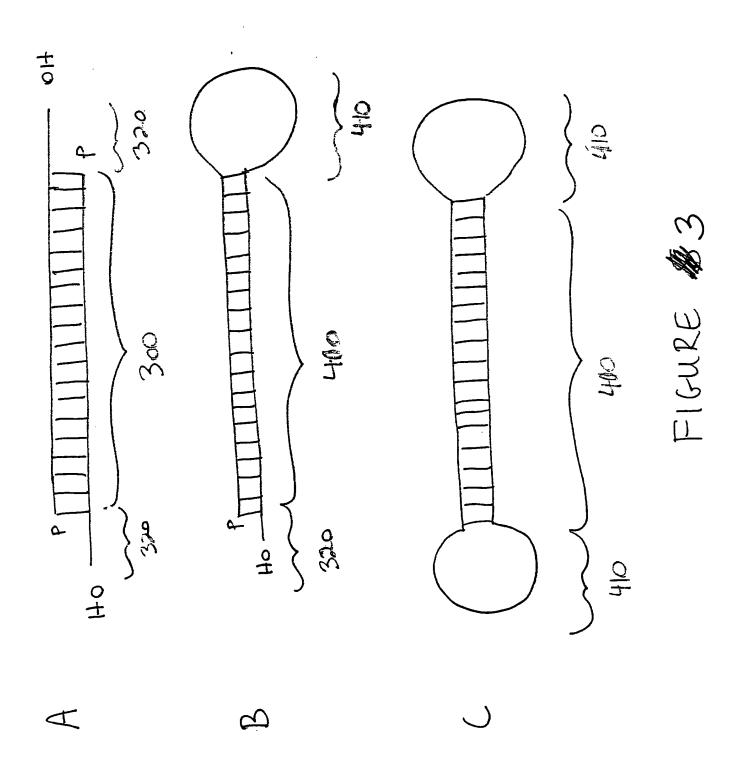
(315)

FIGURE 多1

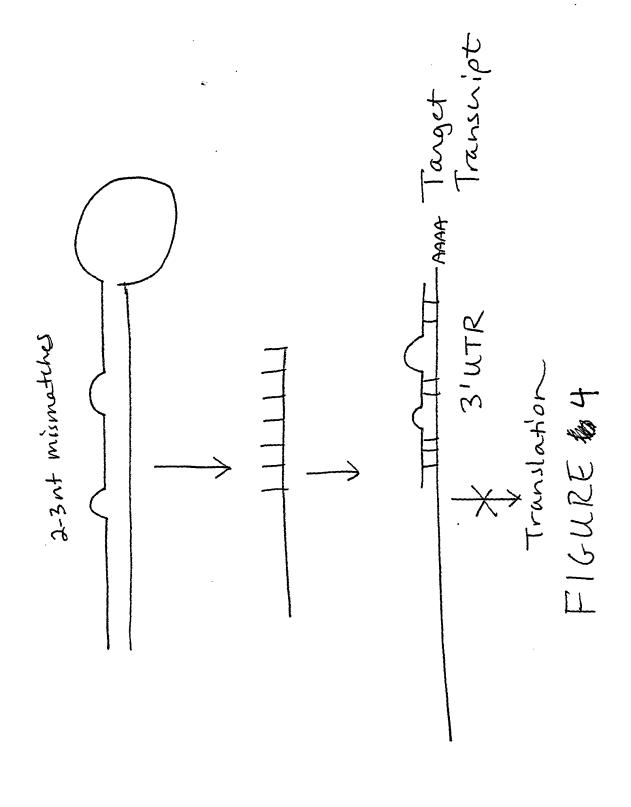
long dSRNA W RNA AAAA . AAAA slicing of MRNA by SIRNA RISC Complex RNA: in Drosophila Helicase? (FOH 무 =7/5/8dd(,5)9Lm m7665/ppp15/96

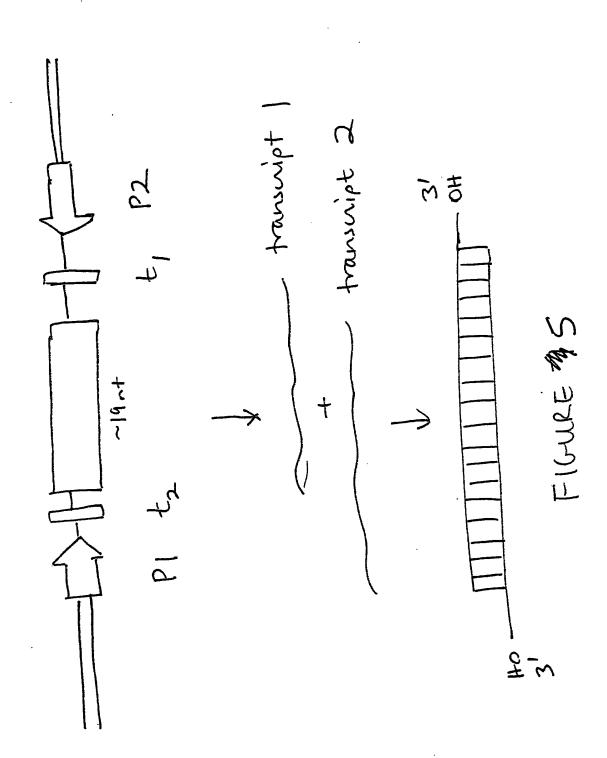
Floure \$ 2

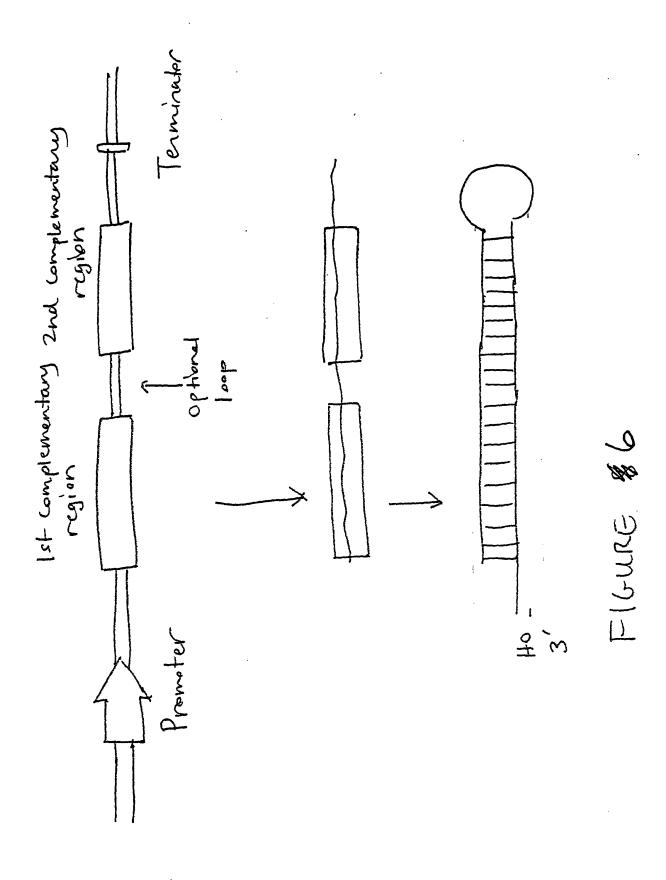
transmipt degradation



٠.



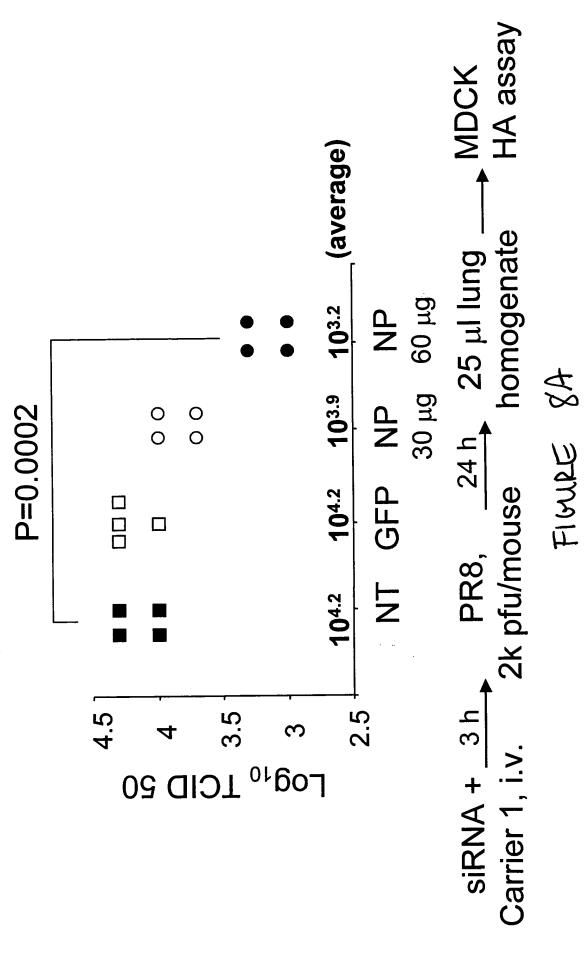




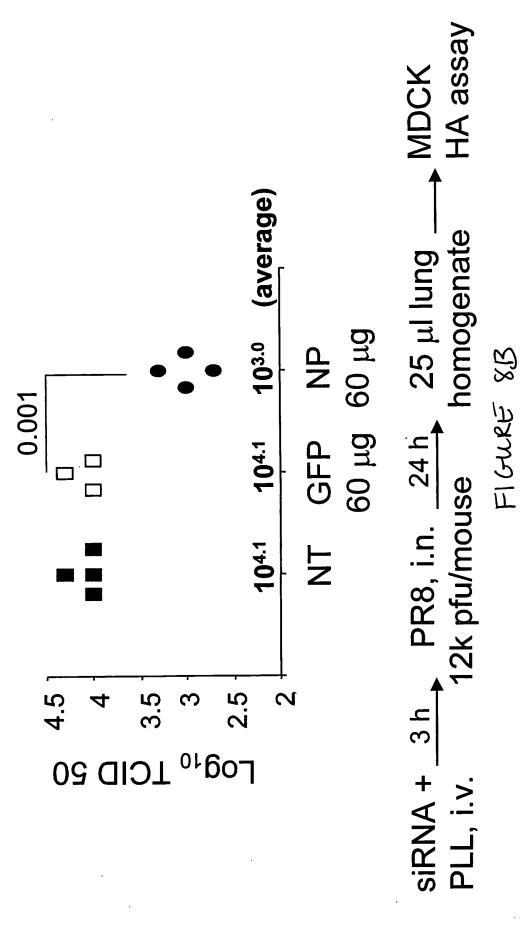
Α ggaticusausuucuucggagdtdt Seq. 10 No: 28
dtdtccuagaasaagaagccuc Seq. 10 Mar. NP-1496 SEQ ID No: 29 guecc cuagaanaaagaagceuc g SEQ 10 No: NP-1496H SEQ ID No: 43 31 ugcgcuccuqgacguagcudtdt dtdtacgcgaggaccugcaucgg GFP-949 SEQ ID No: E 32 ance chlacacasaase craces acada a concada a concada a cacacaca consideration a cada a nacacacaca a concada a concad SEQIDNO: 5 33 В NP-1496H GFP-949H anccc cnadayanayagagccrc a ccn anccc nacadaga cnacancada cca SEGIDNO: GFP-949H NP-1496H C pSLOOP III TITIT— H1 promoter NP-1496H or GFP-949H term H1 promoter NP-1496H GFP-949H term term H1 promoter H1 promoter NP-1496H GFP-949H term

Figure \$ 7

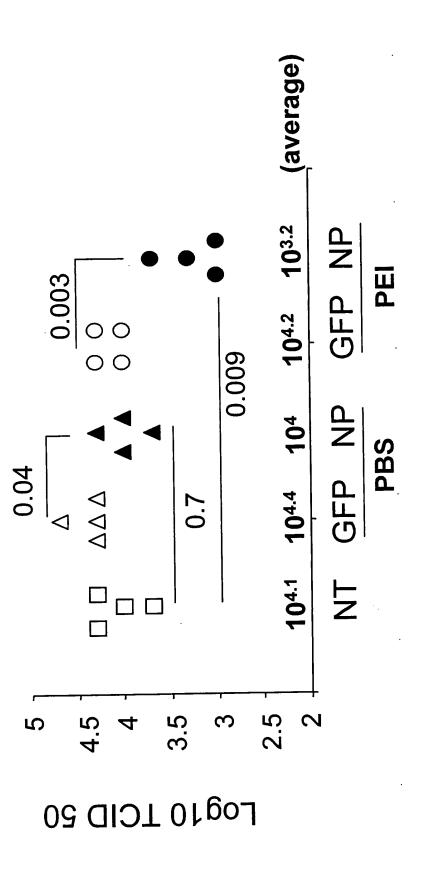
#### siRNA prevent influenza virus production in mice



## The in vivo Transfection Effect of Poly-L-Lysine (42K)



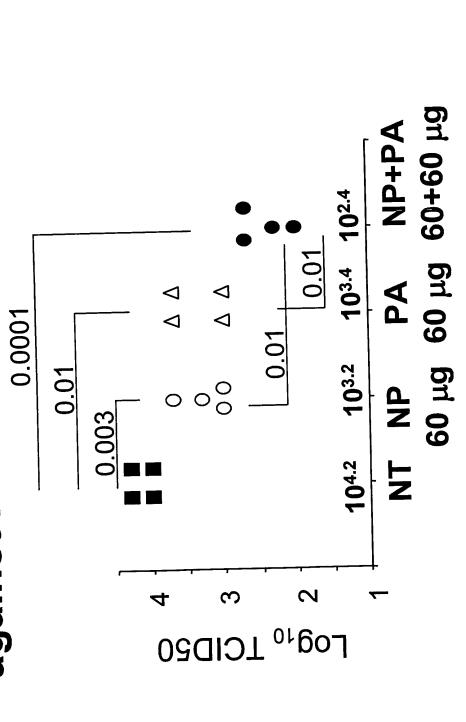
#### siRNA Prevent Influenza Virus Production in vivo



HA assay MDCK homogenate 25 µl lung PR8, i.n. 24 h 12k pfu/mouse siRNA -/+ 3 h PEI, i.v.

FIGURE 80

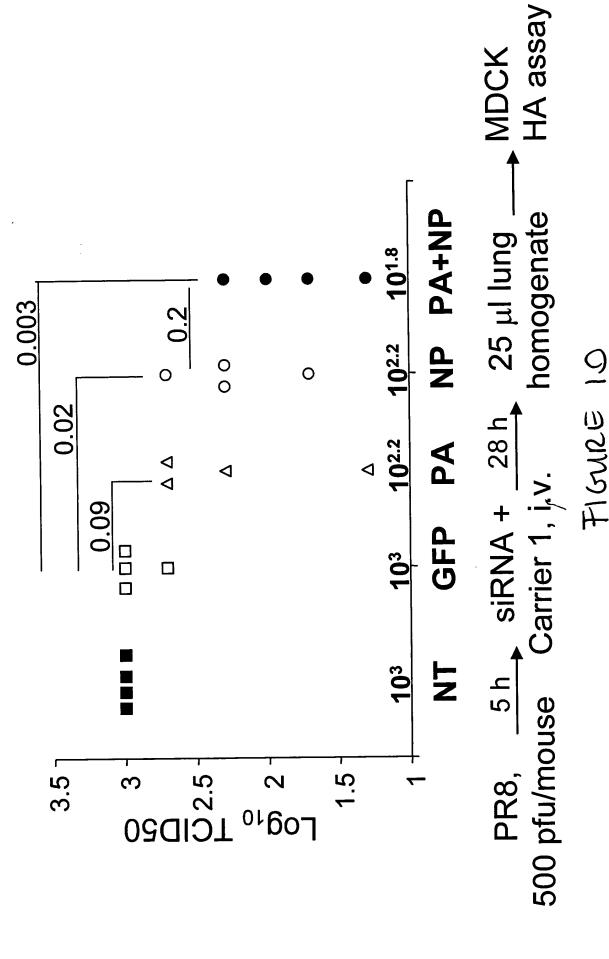
# Additive/synergistic effect of siRNA against influenza virus in mice



HA assay MDCK homogenate 25 µl lung 24 h 2k pfu/mouse PR8, siRNA + 3 h Carrier 1, i.v.

Flource 9

### siRNA inhibit influenza virus Production in infected mouse



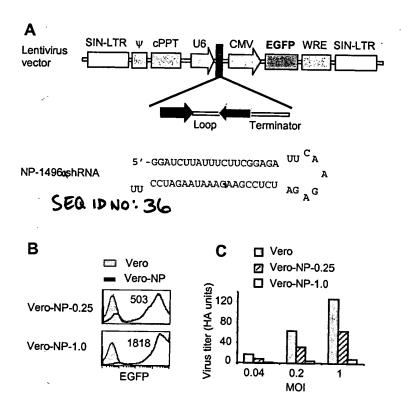


FIGURE 11

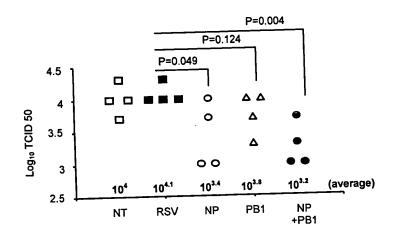


FIGURE 12

# Electrophoretic retardation of siRNA with poly-L-lysine

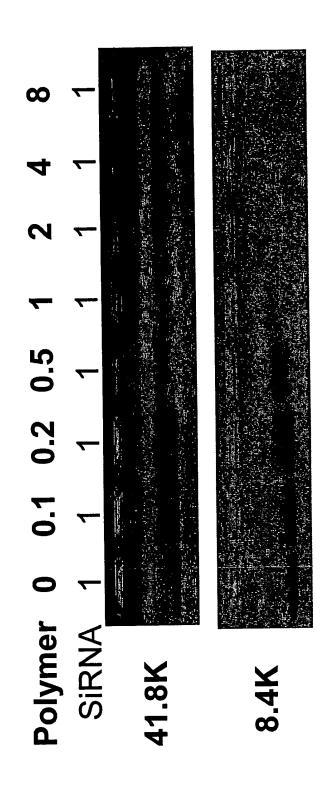


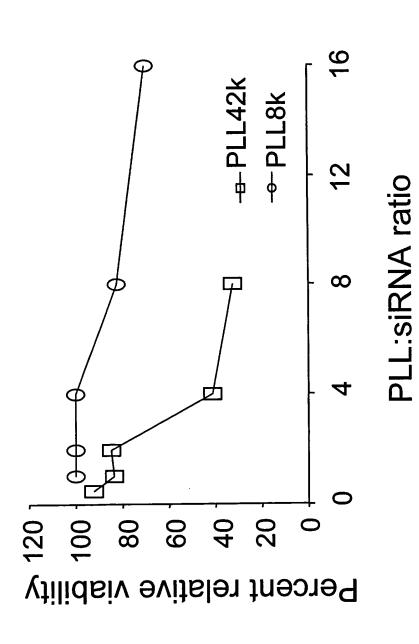
FIGURE 134

# Electrophoretic retardation of siRNA with poly-L-arginine

4.5 13.5 43.5 0.02 0.06 0.17 0.5 SIRNA PLA

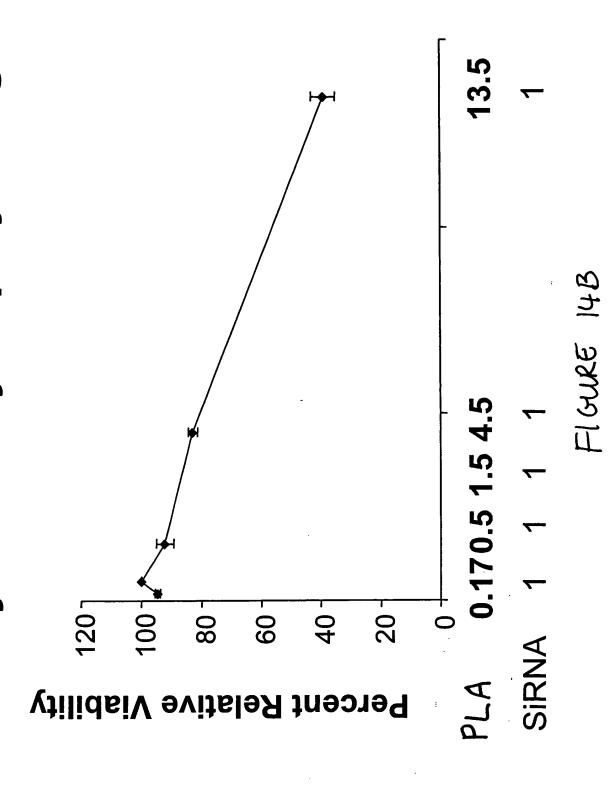
Flowe 13B

### Comparison of poly-L-lysine with different molecular weight



Flower 14A

In vitro cytotoxicity of poly-L-arginine



### Comparison of poly-L-lysine with different molecular weight

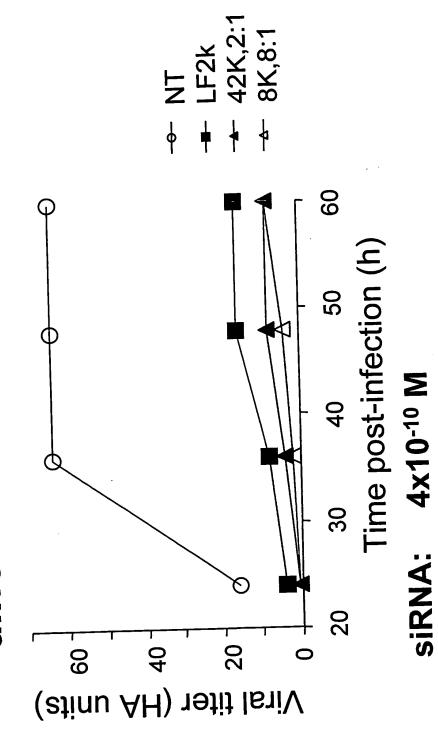
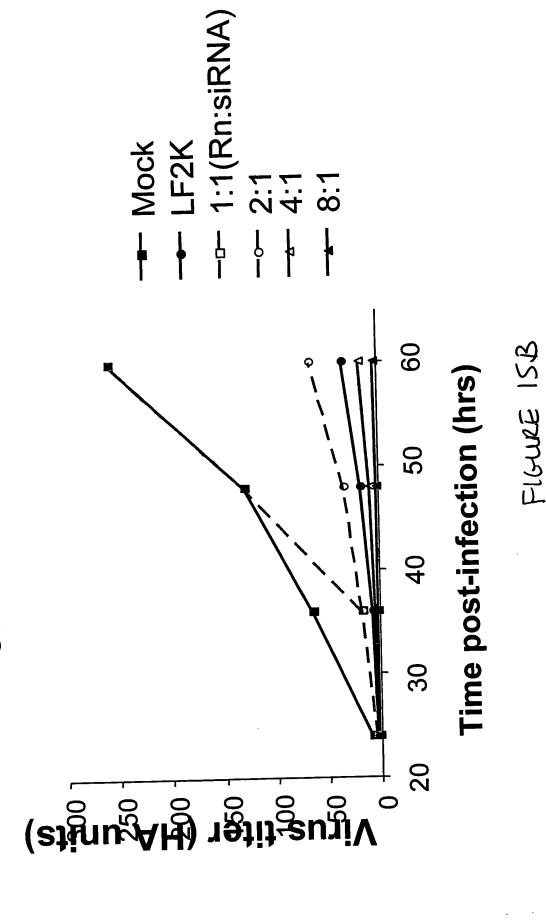


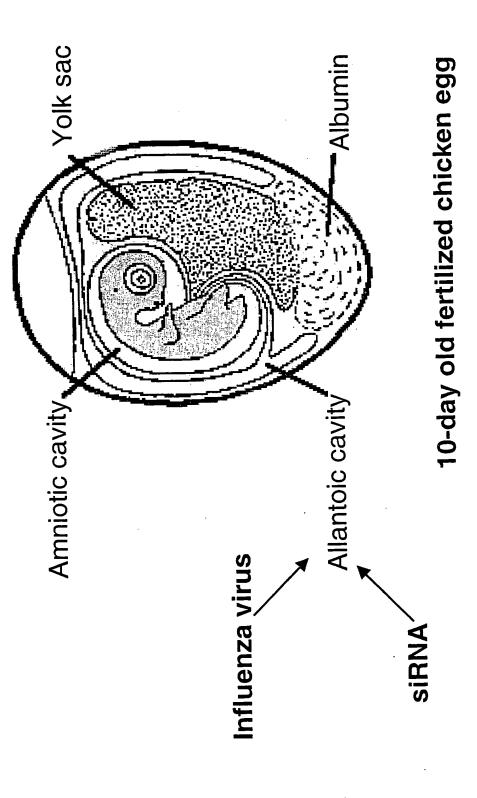
FIGURE ISA

42K PLL: 2.9x10-10 M

8.4K PLL: 57x10<sup>-10</sup> M

# Poly-L-arginine helps cellular uptake of siRNA in vitro





Flower 164

### virus replication in chicken embryos The inhibition of influenza A

